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99-147317/13

\*JP 11010861-A

Printing head for inkjet printer - has base which supports piezoelectric unit to cavity plate with thermal expansion coefficient equal to thermal expansion coefficients of base and piezoelectric unit

BROTHER KOGYO KK 97.06.19 97JP-162972

T04 V06 (99.01.19) B41J 2/015

NOVELTY - A base (41) supports a piezoelectric unit (42) in a cavity plate (44) which has a thermal expansion coefficient equal to the thermal expansion coefficients of the base and the piezoelectric unit. The piezoelectric unit has a piezoelectric component (42a) which changes the volume of the ink storage rooms (44b) of the cavity plate in which ink flow paths (44a) and ink discharge holes (45a) are separated.

USE - For inkjet printer.

ADVANTAGE - Performs efficient ink discharge even if temperature is high. Prevents generation of position gap of piezoelectric unit and ink storage room since base, piezoelectric unit and cavity plate expand to the same extent. Prevents generation of ink dispersion between ink storage rooms, thus ink discharge is satisfactorily performed. Restraints transformation according to increase in grade of swelling due to heat or internal pressure of ink storage room. DESCRIPTION OF DRAWING(S) - The figure shows the exploded perspective diagram of the actuator of the printer. (41) base; (42) piezoelectric unit; (42a) piezoelectric component; (44) cavity plate; (44a) ink flow paths; (44b) ink storage rooms; (45a) ink discharge holes. (7pp Dwg.No.2/4)

N99-107528

